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Partial Discharge Monitor

Smart Termination Box

The **STB-3** is a permanently installed Partial Discharge detector designed to continuously monitor stator insulation condition on critical high voltage motors and generators and alert operating and maintenance personnel to significant increases in partial discharge activity.

The partial discharge alert threshold can be set as a function of humidity for each phase. PD levels are automatically compared to the threshold and an alert is generated when the activity exceeds the threshold value.

STB-3 Features

- Continuous monitoring of stator insulation condition
- Partial Discharge measurement on large motors and generators
- Remotely monitored
- Permanently installed
- Covers all 3 channels
- May be used with 80pF, 500pF or 1000pF Couplers
- PD Value up to 2200
- Noise rejection by pulse shaping/rise-time detection and screened HV cable to machine
- Alert threshold set per phase
- Alert can be indicated by local Indicator (e.g. LED), via remote Browser and/or relay contact closure
- Ethernet Network connection via 10baseT or optionally 10baseFL (fibre optic)
- Access by most common Web Browsers
- May be retrofitted to replace existing PDA Termination Box

Trending can be used to identify machines that have a greater likelihood of insulation failure. Maintenance schedules, activities and priorities can then be set accordingly, including a full partial discharge analysis reading and other insulation tests.

Stores peak PD levels (for each phase independently, with time/date stamp and information about humidity level at the time of the peak) on a user set routine basis. Integrates with SCADA systems.

Allows temporary connection of a full PDA Analyser like the **PDA Premium** for exceptional investigation. Adwel offers on-site PD testing using the [PDA Premium](#) as well as a complete training course on the use and operation of the PDA Premium instrument.

Specifications

Power Input	85V – 260V ac, 0.5A, 50/60Hz
Input Connection	3 phases, one 50 ohm BNC socket per phase
Input Signals	Maximum 1V peak PD pulse Absolute max. 5V peak Frequency: 50 or 60Hz Ambient Humidity Sensor
Input Analysis	10 magnitude channels, PDV = 0-2200
Memory	Peak values for each phase, up to 28 months
Outputs	4-20 mA per phase
Network Signal and Connection	IEEE802.3 ST 10baseFL, or RJ45 10baseT
Network Protocol	TCP/IP, HTML via HTTP
Alert indicators	Settable 0-2200 PDV per phase. Local and browser LED Indicator, Alternate relay contact - 24V, 1 A
Environmental Conditions	Operating 0°C to +40°C Storage -25°C to +60°C Humidity 5-95% RH, non-condensing
Maximum Distance to Hub/PC	185m 10baseT 2000m 10baseFL
Dimensions	300 x 255 x 150mm
Weight	6 kg
Standards	CE Compliance: EN61010-1 for safety EN61326 for EMC

Specifications subject to change without notice

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